

Title (en)

Shift control for change speed gear transmission for vehicles.

Title (de)

Schaltvorrichtung für Wechselgetriebe für Kraftfahrzeuge.

Title (fr)

Commande de changement de vitesse pour transmission à plusieurs rapports pour véhicules.

Publication

**EP 0004705 A2 19791017 (EN)**

Application

**EP 79300301 A 19790228**

Priority

GB 1241978 A 19780330

Abstract (en)

A shift control for change speed gear transmission for vehicles having a main transmission and a two-section group transmission provides two sets of shift paths for a gear change lever one for each section of the group transmission, and individual positions in each shift path set for selecting individual ratios in the main transmission. The control comprises parallel axially slidable shift rods (11, 12 and 13) and a cross shaft (14) which is axially and rotationally movable. The shift rods present axially spaced pairs of faces (16a, 16b, 17a, 17b and 18a) for selective engagement by a selector finger (15) carried by the cross shaft. One pair of faces (16b and 17a) on each shift rod (11 and 12) is disposed between the two pairs of faces (16a, 16b and 17a, 17b) on the other shift rod (12 and 11). A switch (not shown) is operable by the cross shaft to shift the group transmission as a result of movement of the gear change lever from one set of shift paths to the other and a resilient detent (62) is provided in the path of a formation (52) on the cross shaft to inform the driver when a group transmission change is effected. Furthermore, spring abutments (55, 56) position the formation (52) against the detent (62) in the neutral position of the gear change lever. In this fashion, a "double-H" pattern of shift control is achieved using a single lever having predictable neutral positions each side of a range change "gate" and a unique position to select each vehicle drive ratio in high and low range.

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**G05G 9/18; F16H 5/36**

IPC 8 full level

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Cited by

EP0110520A3; EP0122014A3; GB2170565A; FR2554254A1; EP0339808A3; EP0052493A3; US4615233A; EP0321453A3; WO8403782A1; EP0598708B1; EP0383493B1

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